②什么你对 dz= 最dx ····

(3代值进入)

近似计算 f(x,y)≈f(xo,yo)+ 競·ΔX+弱·丛

可做的判定 #

第本等
$$\int - \pi \quad y = f[\nu(x)] \Rightarrow y = f(\nu) \nu(x)$$

二元与一元复台、链式从则、链上球和、链间球和

 $\frac{dz}{dt} = \frac{\partial z}{\partial x}, \frac{dx}{dt} + \frac{\partial z}{\partial y}, \frac{dy}{dt}$

知场元发 $z=f(xy^3,y), x \frac{3^2x}{3x3y}$

$$\frac{\partial x}{\partial z} = \int_{1}^{1} (\lambda_{3})^{2}$$

= (3=) = y2[f" 2xy+f"]+2yf;

隐藏游 |-元隐幽 敬=-羟

耀组中隐函数

| 空间曲线的切线 ① 女惨較求等 | x² = y(t) | y² = y'(t) | z) = w'(t)

$$\begin{cases} x = \psi(t) \\ y' = \psi'(t) \\ z' = w'(t) \end{cases}$$

②算数值 , 得了= {elto), 4'(to), W'(to)}

③由点向式符切成为程
$$\frac{x-x_0}{\psi'(t_0)} = \frac{y-y_0}{\psi'(t_0)} = \frac{z-z_0}{\psi'(t_0)}$$

田法平面方程 ((to)(X-Xo)+ ψ'(to)(Y-Yo)+W'(Ho)(2-Zo)=0

空间曲面的细鹤湖 ①偏导 〔下汉

- ② 第編写值、得元= { Fx (xo, yo, zo), Fg (xo, yo, zo), Fg (xo, yo, zo)}
- ③ 求打平面方律 $F_z(x_0,y_0,z_0)(x-x_0)+F_z(x_0,y_0,z_0)(y-y_0)+F_z(x_0,y_0,z_0)(z-z_0)=0.$ ④ 求法践为律 $\frac{x-x_0}{F_z(x_0,y_0,z_0)}=\frac{y-y_0}{F_y(x_0,y_0,z_0)}=\frac{z-z_0}{F_z(x_0,y_0,z_0)}$

